XIS-ICSF Integration
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Agenda

- **Summary**

- **Background**

- **The Engineering Effort**

- **API's Affected**

- **Advice to Application Developers**

- **Advice to System Developers**

Summary

- **eXtensible Information Service (XIS, formerly LEIF) is a fully supported COE Common Support Application**

- **XIS and ICSF both provide APIs to render objects on a map**

- **The XIS APIs for foreground rendering on a map will be deprecated**

- **XIS will be re-engineered to use ICSF APIs for map-related services**

- **ICSF track database management service (tdbm) will register with XIS**

- **XIS is a data management environment that incorporates multiple datasets and provides a variety of visualization options (Tree, Table, Plot, Organization Chart, Map, and others)**

- **LEIF (now XIS) was developed by DTAI, Inc. (now Polexis) for the DISA/DARPA Joint Program Office (DDJPO)**

- **XIS was transitioned from the DDJPO to the DII COE in October 2000**

The Engineering Effort

- **Polexis, INRI, and DISA have met several times since October**

- **DISA provided integration guidelines:**
  - **XIS will discontinue providing APIs to services that render foreground objects on a map**
  - **All data managed by XIS will be explicitly "registered" with XIS up-front ("no data mining")**
  - **The XIS "MapInfoBean" will be replaced by an XIS plug-in that uses ICSF visualization (for COE systems)**
  - **ICSF Track Management will register with XIS**

This is a Hard Problem

Duplicate APIs

- **XIS and ICSF both provide APIs to perform map functions**
  - **ICSF provides the APIs that are the basis for COE 4.x map visualization**
  - **COE will not fund two efforts to provide the same COE service**

- **Determination was made to not support the XIS map visualization APIs**
  - **New system developers should use ICSF for map services**

- **XIS is primarily a data management environment**
  - **There are many ways to visualize XIS data— the map view is just one "view"**
  - **The map view APIs are approximately 5 percent of the total XIS-supplied APIs**
  - **List includes 54 classes and their associated methods (out of approximately 3,000 XIS classes)**

- ***All Other XIS APIs are available, unchanged, and fully supported by the COE***

Advice to Application Developers

- If you are just starting, review your application requirements:
  - If you need high-level data management services as provided by XIS, use XIS
  - If you need COP services, use ICSF
  - If required, use both
- If you are already using XIS map visualization APIs
  - Start planning a migration plan to use integrated XIS
  - Polexis is exploring providing conversion tools that will assist in the transition of applications from "current XIS" to "integrated XIS"

Advice to System Integrators

- **Determine now whether your system will be "All-XIS" or "No-XIS"**
  - **"Hybrid" systems will probably lead to unacceptable behaviors:**
    - **User selects ten objects from a COP display**
    - **Not all of the data is registered with XIS**
    - **Only six of the objects are displayed in the XIS Table View**
    - **If XIS doesn't know about the data, it can't do anything with it**
- **COE will not "force" use of XIS as that would equate to orphaning systems not using XIS (the current predominant case)**
  - **Decision will be left up to system integrators**